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**ABSTRACT OF THE DISCLOSURE**

Since a pair of units associated with an antenna unit and a base processing unit is separately placed at a various distance with each other, communication signals also  
10 attenuate at a various rate. The amplification gain is adjusted at one unit based upon a receiving signal and a predetermined reception sensitivity level until a desirable amplification is achieved. The desirable amplification value is then transmitted to the other unit to be utilized for reciprocal communication at a desired level between the two units.

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